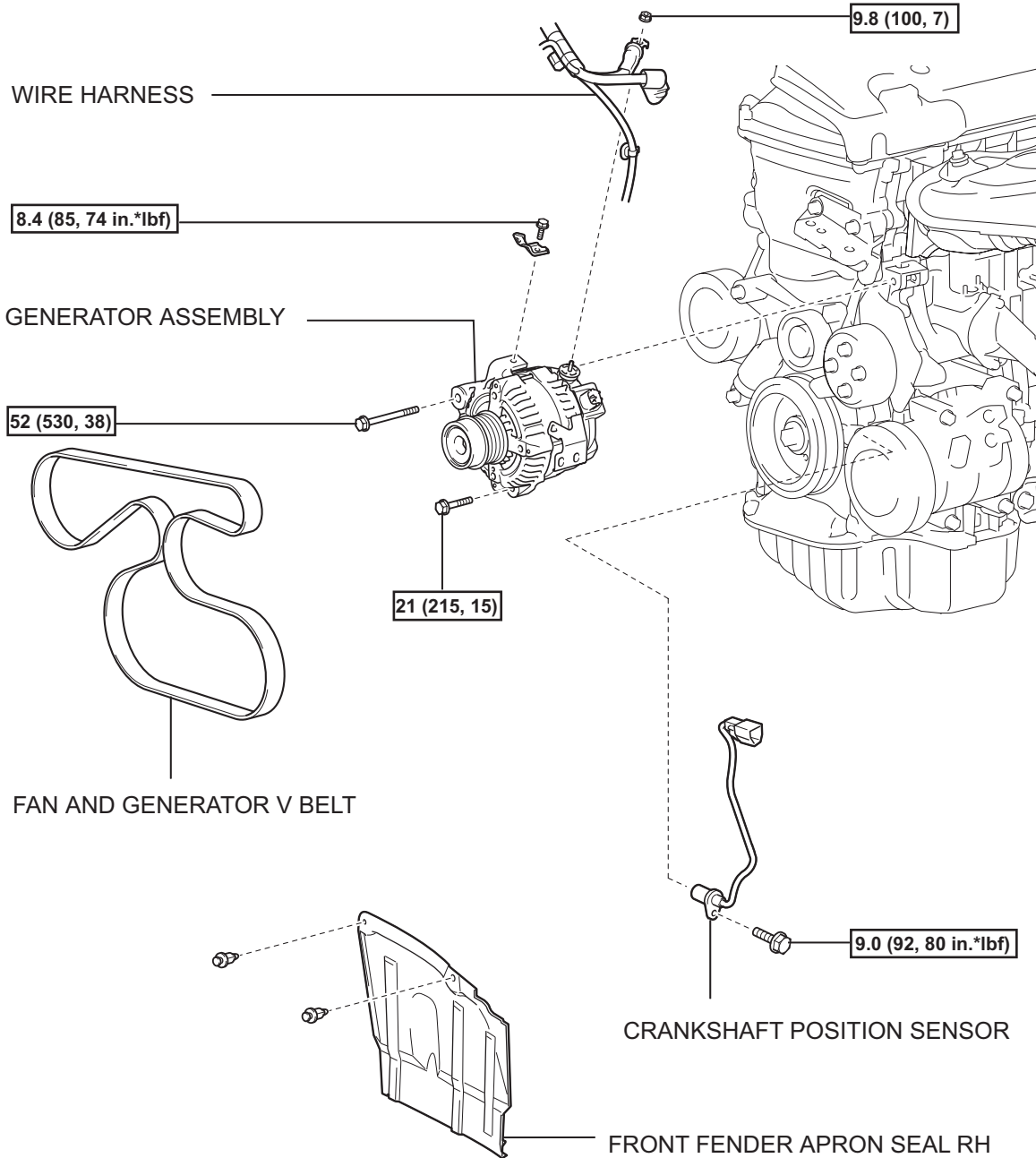


# CRANKSHAFT POSITION SENSOR

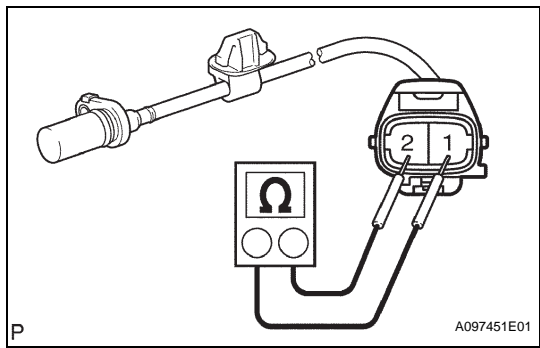
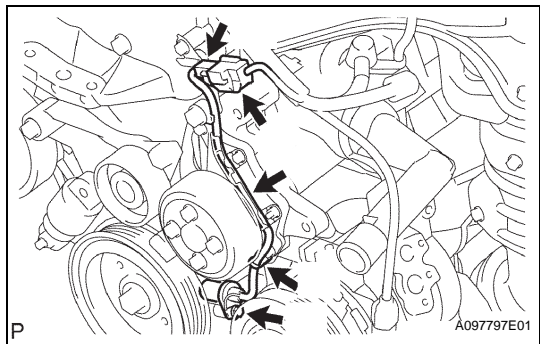
## COMPONENTS



N\*m (kgf\*cm, ft.\*lbf) : Specified torque

REMOVAL

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL
- CAUTION:
- Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.
2. REMOVE GENERATOR ASSEMBLY
- (a) Remove the generator assembly from the vehicle (see page CH-9).
3. REMOVE CRANKSHAFT POSITION SENSOR
- (a) Disconnect the sensor connector.
- (b) Remove the connector clamp.
- (c) Remove the wire harness from the wire harness clamp bracket.
- (d) Remove the wire harness clamp.
- (e) Remove the bolt and sensor.



INSPECTION

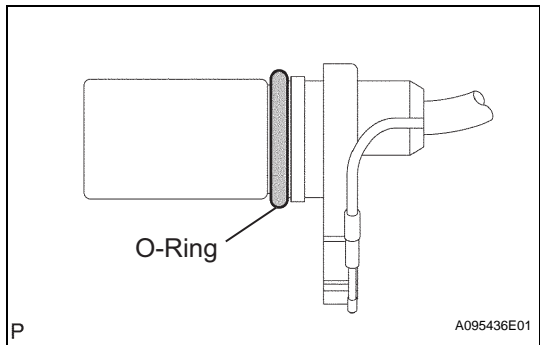
1. INSPECT CRANKSHAFT POSITION SENSOR
- (a) Measure the resistance of the sensor.
- Standard resistance

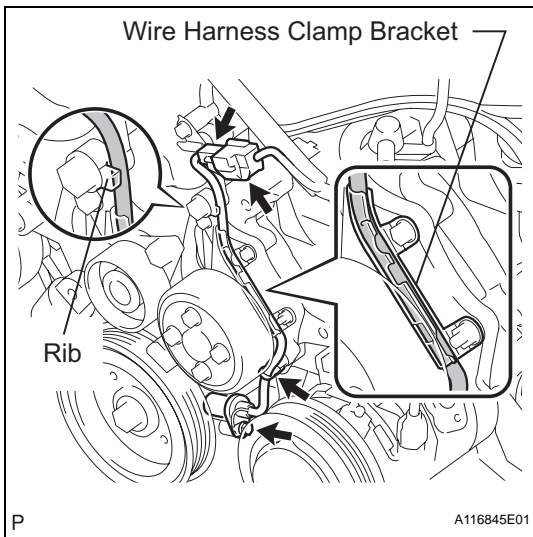
| Tester Connection | Specified Condition            |
|-------------------|--------------------------------|
| 1 (NE+) - 2 (NE-) | 985 to 1,600 $\Omega$ at Cold  |
| 1 (NE+) - 2 (NE-) | 1,265 to 1,890 $\Omega$ at Hot |

**NOTICE:**  
Cold and Hot mean the temperature of the coils themselves. Cold is from -10 to 50°C (14 to 122°F) and Hot is from 50 to 100°C (122 to 212°F).  
If the result is not as specified, replace the crankshaft position sensor.

INSTALLATION

1. INSTALL CRANKSHAFT POSITION SENSOR
- NOTICE:
- Make sure that the O-ring is not cracked or jammed when installing it.
- (a) Apply a light coat of engine oil to the O-ring of the sensor.





- (b) Install the sensor with the bolt.  
**Torque: 9.0 N\*m (90 kgf\*cm, 80 in.\*lbf)**
- (c) Install the wire harness clamp.
- (d) Install the connector clamp.
- (e) Connect the sensor connector.
- (f) Confirm that the wire harness of the sensor is secured to the wire harness clamp bracket through the back of the rib of the timing chain cover.

## 2. INSTALL GENERATOR ASSEMBLY

- (a) Install the generator to the vehicle (see page [CH-15](#)).

## 3. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

## 4. CHECK FOR ENGINE OIL LEAKAGE